

ABSTRACT OF THE DISCLOSURE

5 A fuel gas production apparatus includes a reforming
mechanism, a cooling mechanism connected an outlet side of
the reforming mechanism and a PSA mechanism directly
connected to the reforming mechanism through the cooling
mechanism. The reforming mechanism uses an auto-thermal
reforming system for reforming a fuel to obtain a reformed
gas. The cooling mechanism cools the reformed gas to a
10 predetermined temperature. After the reformed gas is cooled
by the cooling mechanism, the PSA mechanism removes
impurities from the reformed gas to produce a hydrogen-rich
pure fuel gas.